

Draft EIR/EA

for the

Imperial Solar Energy Center West

SCH #2010061037

Conditional Use Permit: CUP #10-0012

Variance: #V10-0007

BLM Right-of-Way: CACA-51644

EA Number: 2010-64

prepared for

County of Imperial 801 Main Street El Centro, CA 92243

and

Bureau of Land Management 1661 South 4th Street El Centro, CA 92243

prepared by

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Appendix A: Notice of Preparation and Responses

(bound with EIR/EA)

The following are contained on the CD, which is attached to the back of this EIR/EA.

Appendix B: Traffic Impact Analysis

Prepared by LOS Engineering, Inc.

August 2, 2010

Appendix C1: Construction Air Quality Conformity Assessment

Prepared by Investigative Science and Engineering, Inc.

August 18, 2010

Appendix C2: Construction Greenhouse Gas/Global Warming Risk Assessment

Prepared by Investigative Science and Engineering, Inc.

August 19, 2010

Appendix D: Geotechnical Investigation Report

Prepared by Landmark Consultants, Inc.

May 2010

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Appendix E: Land Evaluation and Site Assessment

Prepared by BRG Consulting, Inc.

August 2010

Appendix F: Construction Acoustical Site Assessment

Prepared by Investigative Science and Engineering, Inc.

August 20, 2010

Appendix G1: Phase I Environmental Site Assessment

Prepared by Tetra Tech, Inc.

March 2010

Appendix G2: Phase II Environmental Site Assessment

Prepared by Tetra Tech, Inc.

April 2010

Appendix H1: Preliminary CEQA Level Drainage Study

Prepared by Tory R. Walker Engineering, Inc.

October 4, 2010

Appendix H2: Preliminary Water Quality Report

Prepared by Tory R. Walker Engineering, Inc.

October 4, 2010

Appendix I-1: Biological Technical Report

Prepared by Recon Environmental, Inc.

November 9, 2010

Appendix I-2: Spring 2010 Rare Plant Survey Report

Prepared by Recon Environmental, Inc.

July 23, 2010

Appendix I-3: Burrowing Owl Nesting Season Surveys

Prepared by Recon Environmental, Inc.

July 29, 2010

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Appendix I-4: Post Survey Notification of Focused Survey for the Southwestern Willow Flycatcher

Prepared by Recon Environmental, Inc.

July 30, 2010

Appendix J: Project Design Features

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

Purpose of the EIR/EA

The EIR/EA provides an analysis of the potential environmental effects associated with the approval of the project. The EIR/EA has been prepared jointly by the County of Imperial (local lead agency) and the U.S. Bureau of Land Management (federal lead agency) in accordance with the California Environmental Quality Act of 1970 (CEQA) statutes (Cal. Pub. Res. Code, § 21000 et seq., as amended) and implementing guidelines (Cal. Code Regs., Title 14, § 15000 et seq. (1998)); the National Environmental Policy Act of 1969 (NEPA) (42 U.S.C. § 4332 (1994)) in accordance with the Council on Environmental Quality (CEQ) regulations implementing NEPA (40 C.F.R. §§1500-1508) The EIR/EA provides a credible worst case scenario of the impacts resulting from implementation of the project.

Project Description

The Proposed Action consists of two primary components: 1) the construction and operation of the 250 Megawatt Imperial Solar Energy Center West solar energy facility; and, 2) the construction and operation of the electrical transmission lines that would connect from the solar facility to the existing Imperial Valley substation. The electricity generation process associated with the Proposed Action would utilize solar technology to convert sunlight directly into electricity. As part of the project, the solar facility would interconnect to the utility grid at the 230 kV side of the Imperial Valley Substation via an approximately five-mile long transmission line. The proposed right-of-way (ROW) for the electrical transmission line corridor would be 120-feet wide.

Agency Roles and Responsibilities

County of Imperial

The solar facility site is designated by the County of Imperial General Plan as "Agriculture" and is zoned A-2 (General Agriculture), A-2-R (General Agricultural Rural Zone), and A-3 (Heavy Agriculture). The proposed solar facility site comprises approximately 1,130 acres of abandoned agricultural land. The Proposed Action would require approval of a Conditional Use Permit by the County of Imperial that would allow for the construction and operation of the proposed solar facility on a project site consisting of nine legal parcels zoned A-2, A-2-R, and A-3. Pursuant to Title 9, Division 5, Chapter 9, "Solar Energy Plants" is a use that is permitted in the A-3 zone subject to approval of a Conditional Use Permit from the County of Imperial. ("Transmission lines, including supporting towers, poles, microwave towers, utility substations" are permitted uses within the A-3 Zone.) Pursuant to Title 9, Division 5, Chapter 8, "Solar energy electrical generator," "Electrical power generating plant," "Major facilities relating to the generation and transmission of electrical energy," and "Resource extraction and energy development," are uses that are permitted in the A-2 and A-2-R zone subject to approval of a Conditional Use Permit from the County of Imperial. In addition, the Proposed Action would require approval of a variance by the County of Imperial that would allow the proposed transmission towers to exceed the 120-foot height limit on the private land portion of

the project. This would affect only the portion of the Proposed Action proposed for the solar energy facility, which is located on private lands in the unincorporated portion of the County of Imperial. The proposed transmission towers would be a maximum of 140 feet in height. No land use changes would be required in order to implement the Proposed Action.

Bureau of Land Management

The solar facility is located approximately five miles northwest of the Imperial Valley Substation. The solar facility would interconnect to the utility grid at the 230 kV side of the Imperial Valley Substation. The Imperial Valley Substation is located within federal lands managed by the BLM; therefore, the project requires Right-of-Way (ROW) approval from the BLM. The project plans a 120 foot wide ROW from the project site, along BLM land to the Imperial Valley Substation in order to accommodate the transmission corridor. The right-of-way corridor, within BLM lands comprises approximately 72.72 acres.

To obtain the ROW approval, CSOLAR submitted a "Standard Form-299 Application for Transportation and Utility Systems and Facilities on Federal Lands" to the BLM. The proposed ROW would be within Utility Corridor "N" of the BLM's California Desert Conservation Area Plan (the Desert Plan). BLM is the lead agency on this Environment Assessment (EA) pursuant to a Memorandum of Understanding (MOU) between DOE and BLM signed in January 2010, and would use this EA to comply with NEPA and assist the decision making regarding whether or not approve the proposed ROW.

Department of Energy

Title XVII of the Energy Policy Act of 2005 (EPAct), P.L. 109-58 as amended by section 406 of the American Recovery and Reinvestment Act of 2009, P.L. 111-5 (the "Recovery Act"), established a Federal loan guarantee program for eligible energy projects. Title XVII authorizes the Secretary of Energy to make loan guarantees for various types of projects, including those that "avoid, reduce, or sequester air pollutants or anthropogenic emissions of greenhouse gases; and employ new or significantly improved technologies as compared to commercial technologies in service in the United States at the time the guarantee is issued." Section 406 of the Recovery Act added section 1705, which is designed to address the current economic conditions of the nation, in part, through eligible renewable and transmission projects to commence construction no later than September 30, 2011. The primary purposes of the Recovery Act are job preservation and creation, infrastructure investment, energy efficiency and science, assistance to the unemployed, and state and local fiscal stabilization. The purpose and need for the Department of Energy (DOE) action would be to comply with its mandate by selecting eligible projects that meet the goals of EPAct and the Recovery Act.

Pursuant to provisions of section 1705, on October 7, 2009, DOE competitively solicited applications for, "Commercial Technology Renewable Energy Generation Projects Under the Financial Institution Partnership Program." In response to that solicitation the project proponent, CSOLAR Development LLC submitted an application to DOE on June 11, 2010, for a Federal loan guarantee for the Imperial Solar Energy Center (ISEC) South and West. DOE is carrying out a detailed financial, technical, and legal evaluation of the project submitted by the loan applicant, and is in the course of negotiating the terms and conditions of a possible Federal loan guarantee pursuant to its procedures set out at 10 CFR Part 609. DOE is a

cooperating agency on this Environment Assessment (EA) pursuant to a Memorandum of Understanding (MOU) between DOE and BLM signed in January 2010, and would use this EA to comply with NEPA and assist the decision making regarding whether or not to issue a loan guarantee.

For a comprehensive list of all agencies with roles and responsibilities, see Section 1.1 below.

Project Location

The site of the proposed solar energy facility is located on 1,130 acres of privately-owned land, previously utilized for agricultural production. The site is located in the unincorporated Seeley area of the County of Imperial, approximately eight miles west of the City of El Centro and south of the community of Seeley. The proposed transmission lines would be located within the Yuha Desert, and within BLM's Utility Corridor "N" of the California Desert Conservation Area plan. Imperial County is located in Southern California, bordering Mexico, west of Arizona, and east of San Diego County. The proposed transmission lines would be located within BLM's Utility Corridor "N".

Purpose and Need

The purpose of the Proposed Action is to utilize Imperial County's abundance of available solar energy (sunlight) to generate renewable energy. The following objectives have been identified for the proposed project. These objectives also provide a basis for identification of alternatives evaluated in the EIR/EA.

Imperial County

The County of Imperial is the lead agency for the Proposed Action pursuant to the California Environmental Quality Act.

- Construct and operate a solar energy facility capable of producing 250 megawatts of electricity which would help meet the increasing demand for clean, renewable electrical power.
- Construct and operate a solar power facility in compliance with CEQA and the County's CEQA
 Guidelines, as well as any other applicable local, state, and federal standards.
- Operate a facility at a location that ranks amongst the highest in solar resource potential in the nation.
- Align transmission lines with existing lines contained within an existing utility corridor to minimize impacts to BLM land.
- Provides economic investment for Imperial County.
- Reinforce Imperial County's position as a leader in the renewable energy world.
- Operate a renewable energy facility that does not produce significant noise, emit significant greenhouse gases, and minimizes water use.
- Meet the increasing demand for clean, renewable electrical power.

- Help reduce reliance on foreign sources of fuel, promotes national security, diversify energy portfolios, contribute to the reduction of greenhouse gas emissions and generate "green" jobs.
- The Project will contribute much needed on-peak power to the electrical grid in California.
- Help California meet its statutory and regulatory goal of increasing renewable power generation.
- Assist California in meeting its Renewable Portfolio Standard goals of 33 percent of electrical power retail sales by 2020 under pending legislation.
- Support U.S. Secretary of the Interior Salazar's Orders 3283 and 3285 making the production, development and delivery of renewable energy top priorities for the United States.
- Support the greenhouse gas reduction goals of Assembly Bill 32 (California Global Warming Solutions Act of 2006).
- Sustain and stimulate the economy of Southern California by helping to ensure an adequate supply of renewable electrical energy while simultaneously creating additional construction and operations employment and increased expenditures in many local businesses.
- Locate the solar energy generating facility on a site with the proximity and the ability to interconnect to the California Independent System Operator (CAISO) controlled transmission network.
- Locate the solar energy generating facility on a site with the ability to utilize a previously designated utility transmission corridor.

Bureau of Land Management

The Bureau of Land management is the lead agency under the National Environmental Policy Act for the Proposed Action. The purpose of the Proposed Action is to provide the proponents of the Imperial Solar Energy Center West with legal access across public land managed by the BLM in order to allow the construction and operation of proposed electrical transmission lines from the Imperial Solar Energy Center West solar energy facility to the Imperial Valley Substation. The need for the action is established by the BLM's responsibility under the Federal Land Policy and Management Act of 1976, as Amended (FLPMA) to respond to a request for a Right-of-Way Grant under Title V of the FLPMA for legal access through BLM lands.

Department of Energy

The purpose and need for the DOE action would be to comply with its mandate by selecting eligible projects that meet the goals of EPAct and the Recovery Act. The goals of the EPAct's loan guarantee program are to encourage commercial use in the U.S. of new or significantly improved energy-related technologies and to achieve substantial environmental benefits.

Environmental Impacts

The County of Imperial has determined that an Environmental Impact Report (EIR) is required pursuant to the California Environmental Quality Act (CEQA) and the Bureau of Land Management (BLM) has determined to follow the process of reviewing the project as required under the National Environmental Policy Act (NEPA) and will assess the project via an Environmental Assessment (EA). The environmental issue areas identified by the agencies as a result of input received on the Notice of Preparation (NOP) and scoping meeting for the project include the following: visual resources; land use; transportation/circulation; air quality; greenhouse gas emissions; geology/soils and mineral resources; cultural resources; noise; agricultural resources; health, safety and hazardous materials/fire and fuels management; hydrology and water quality; biological resources; public services and utilities; paleontological resources; socioeconomics and environmental justice; recreation; special designations; and, cumulative impacts.

This EIR/EA is a joint federal/state document prepared to comply with the requirements of both NEPA and CEQA. CEQA requires an EIR to identify significant environmental effects of the project. The Environmental Consequences subsections of this EIR/EA each contain a subsection identified as CEQA Significance Criteria. These criteria are used in this EIR/EA only to determine the significance under CEQA of each identified adverse effect and are presented in Table ES-1. Table ES-1 presents a summary of the environmental impacts of the Proposed Action, mitigation measures that are proposed to reduce potential significant impacts of the Proposed Action, and the level of significance of each impact after implementation of proposed mitigation measures.

In accordance with CEQA Guidelines § 15004(b)(3) and 40 C.F.R. § 1508.20, the applicant has incorporated design features, measures, and procedures into the description of its proposed project to avoid or reduce impacts from project construction and operation. These measures are referred to as Applicant Proposed Measures (APMs) in this document and are considered in the analysis of potential impacts and in the determination of significance.

Analysis Assumptions Generally Used to Evaluate the Impacts of the Proposed Action

Baseline Environmental Conditions Assumed in the Draft EIR/EA

Section 15125(a) of the CEQA Guidelines requires that an EIR include a description of the physical environmental conditions in the vicinity of the project as they exist at the time the Notice of Preparation is published. The CEQA Guidelines also specify that this description of the physical environmental conditions is to serve as the baseline physical conditions by which a lead agency determines whether impacts of a project are considered significant.

The environmental setting conditions of the project site and the surrounding area are described in detail in the technical sections of the Draft EIR/EA in Chapter 3. In general, these setting discussions describe the setting conditions of the project site and the surrounding area as they existed when the NOP for the project was released on June 11, 2010. In addition, the Draft EIR/EA also includes updated setting information since release of the NOP, such as the status of proposed and approved large-scale projects in the region.

Applicant Mitigation Measures

In accordance with CEQA Guidelines Section 15004(b)(3) and 40 C.F.R. Section 1508.20, the project proponent has incorporated design features, measures, and procedures into the description of its project to avoid or reduce impacts from project construction and operation. These measures are referred to as Applicant Proposed Measures (APMs) in this document and are considered in the analysis of potential impacts and in the determination of significance.

CEQA Guidelines Section 15004(b)(3) states, "[w]ith private projects, the Lead Agency shall encourage the project proponent to incorporate environmental considerations into the project conceptualization, design, and planning at the earliest feasible time." When mitigation is built into a project's design, the lead agency may presume that the project will be implemented consistent with the project description. <u>Environmental Council of Sacramento v City of Sacramento (2006) 142 CA4th 1018, 1035, 48 CR3d 544</u>. The project proponent thus incorporated APMs into the Proposed Action's design in order to assure that potentially significant impacts do not rise to the level of significance.

General Plan Consistency Analysis

As required by CEQA Guidelines 15125(d), each technical section of the EIR (Chapter 4) has been evaluated for consistency with policies contained in the applicable Imperial County General Plan. "An action, program, or project is consistent with the general plan if, considering all its aspects, it will further the objectives and policies of the general plan and not obstruct their attainment." Corona-Norco Unified School Dist. v. City of Corona (1993) 17 Cal.App.4th 985, 994 [emphasis added].

Project Buildout Assumptions

For most of the environmental impact sections of the EIR/EA, it is conservatively assumed that buildout of the site would be permanent. However, several of these impacts will be temporary. The land proposed for the solar energy facility is subject to a long-term lease agreement. Under the lease agreement, the applicant is required to restore the land to its current use at the end of the project term.

Potentially Significant, Mitigable Impacts

Implementation of the Proposed Action will result in potentially significant impacts as a result of the construction activities and operation of the project. Potentially significant impacts, pursuant to CEQA criteria, have been identified to the following environmental issue areas:

- Transportation/Circulation
- Air Quality
- Geology/Soils and Mineral Resources
- Cultural Resources
- Agricultural Resources

- Health, Safety and Hazardous Materials
- Hydrology and Water Quality
- Biological Resources
- Paleontological Resources

Incorporation of the APMs into the design of the Proposed Action and the Implementation of proposed Mitigation Measures identified in this EIR/EA would ensure that the impact to these resource areas do not rise to a level of significance.

Significant, Unmitigable Impacts

No significant, unmitigable impacts have been identified associated with the construction and operation of the Proposed Action.

Alternatives to the Proposed Action

The following alternatives are included and analyzed in Section 4.0 Environmental Consequences of this EIR/EA:

Proposed Action

The Proposed Action for the transmission line corridor is described in detail in Section 2.1.4. The alignment of this alternative is shown on Figure 2-20. The Proposed Action parallels the proposed IID Dixieland corridor to the proposed IID substation north of the Imperial Valley Substation proposed route. It is considered the Proposed Action as it would minimize impacts to BLM lands and cultural resources while also meeting the project objectives. This alternative would enable CSOLAR and IID Dixieland to share an access road and minimize disturbance to the Yuha Desert. Also, it would be the least environmentally damaging practicable alternative in regards to impacts on U.S. Army Corps of Engineers jurisdictional waters (non-wetland waters of the U.S.).

Alternative 1-Alternative Transmission Line Corridor

Alternative 1-Alternative Transmission Line Corridor for the proposed transmission line is shown on Figure 2-21. This alternative would be similar to the Proposed Action transmission corridor for a majority of the alignment; however, it is routed around two private parcels. (The Proposed Action would run through the private parcels should an easement be granted.) The Alternative 1-Alternative Transmission Line Corridor would avoid the private lands.

Alternative 2-Alternative Transmission Line Corridor

Alternative 2-Alternative Transmission Line Corridor for the proposed transmission line is shown on Figure 2-22. This alternative would be located further west than the transmission line corridor under the Proposed Action. This route parallels the Sunrise Powerlink, which is currently under construction, Southwest Powerlink, and proposed Imperial Valley Solar Gentie. Under Alternative 2-Alternative Transmission Line Corridor, the Applicant would create spurs off the existing access road to access its proposed towers.

Alternative 3-Reduced Solar Energy Facility Site

Alternative 3-Reduced Solar Energy Facility Site is a reduced solar energy facility site. The purpose of this alternative is to avoid impacts to sensitive resources located within the boundary of the solar energy facility site. Under this alternative, the solar energy facility site size would be reduced by approximately 7.31 acres. This would equate to a nominal (approximately 3 megawatt) reduction of power generating capability.

The transmission line corridor would be the same as is assumed for the Proposed Action. Figure 2-23 depicts Alternative 2-Reduced Solar Energy Facility Site Alternative.

Alternative 4-No Action/No Project Alternative

Alternative 4-No Action/No Project Alternative assumes that the solar facility and associated transmission lines would not be constructed. DOE would not issue a loan guarantee to CSOLAR Development LLC.

Areas Of Controversy And Issues To Be Resolved

The CEQA Guidelines Section 15123(b)(2) requires that areas of controversy known to the lead agency, including issues raised by agencies and the public, and be identified in the EIR/EA's Summary. To determine the number, scope and environmental topics to be addressed in this EIR/EA, the Imperial County Planning and Development Services Department prepared a Notice of Preparation (NOP) and circulated the NOP on June 11, 2010 to interested public agencies, organizations, community groups and individuals in order to receive input on the Proposed Action. The NOP was circulated for the mandatory 30-day minimum public review period, starting on June 11, 2010 and ending on July 13, 2010. The NOP and the distribution list for the NOP are provided in Appendix A of this EIR/EA.

In addition to the State Clearinghouse transmittal letter, seven written comment letters were received in response to the NOP. Agencies and entities that submitted written comment letters included California Department of Transportation, the United States Marine Corps, Imperial County Air Pollution Control District, California Department of Conservation, Department of Toxic Substances Control, Imperial Irrigation District (IID), and Colorado River Board of California. Through the NOP process, the following areas of controversy or issues include:

- Caltrans requirements for Utility Encroachment, such as line supports for overhead lines crossing freeways
- Concern regarding dust emissions and control during construction and operation of the project
- Concerns raised regarding potential impacts associated with the conversion of agricultural lands
- Concern regarding possible use of herbicides for weed control at the solar generating facility
- Concern regarding impacts to human health and/or the environment due to potential hazardous materials onsite (e.g., chemicals, asbestos, pesticides, and organic waste)
- Fiscal impacts to the County associated with the solar generating facility
- Concerns raised regarding the Proposed Action's location within a military low-level training route and the potential impact including noise, vibrations, and interference from the overflight aircraft
- Revisions to IID distribution circuits may be required to serve the Operations and Maintenance building proposed at the solar facility site
- Concern that the IID facilities may potentially impact the Westside Main Canal
- A new bridge may be required to cross the Westside Main Canal in order to access the site

- Encroachment permit requirements for any construction or operation on IID property or within existing or proposed right of way easements
- Project water requirements of IID
- New, relocated, or reconstructed IID facilities required for the project need to be evaluated

Mitigation, Monitoring And Reporting Program

CEQA Section 21081.6(a) requires lead agencies to adopt a Mitigation, Monitoring and Reporting Program (MMRP) to describe measures which have been adopted or made a condition of project approval in order to mitigate or avoid significant effects on the environment. The specific "reporting or monitoring" program required by CEQA is not required to be included in the EIR; however, it will be presented to the County Planning Commission and/or Board of Supervisors for adoption if the Proposed Action is approved. Throughout the EIR, mitigation measures have been clearly identified and presented in language that will facilitate establishment of an MMRP. The MMRP would ensure compliance with the mitigation measures adopted by the County Board of Supervisors.

TABLE ES-1 Summary of Potential Environmental Effects, Mitigation Measures, and Significance

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
4.1 Visual Resources			
PA No significant short-term or long-term visual resources impact has been identified.	NE	No mitigation recommended.	NE
1 Same as PA.	NE	Same as PA.	NE
2 Same as PA.	NE	Same as PA.	NE
3 Same as PA.	NE	Same as PA.	NE
4 No new development is proposed under the No Action/No Project Alternative.	NE	No mitigation recommended.	NE
4.2 Land Use			
PA No significant physical land use impact has been identified.	NE	No mitigation recommended.	NE
1 Same as PA.	NE	Same as PA.	NE
2 Same as PA.	NE	Same as PA.	NE
3 Same as PA.	NE	Same as PA.	NE
4 No new development is proposed under the No Action/No Project Alternative.	NE	No mitigation recommended.	NE
4.3 Transportation/Circulation			
PA No direct impacts to intersections, roadway segments, and freeway segments were identified.	NE	No mitigation recommended.	NE
1 Same as PA.	NE	Same as PA.	NE
2 Same as PA.	NE	Same as PA.	NE
3 Same as PA.	NE	Same as PA.	NE
4 No new development is proposed under the No Action/No Project Alternative.	NE	No mitigation recommended.	NE

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4	
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE	

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
PA Significant NO _x impacts are expected due to construction grading operations. NO _x emissions of 103.5 pounds per day would exceed ICAPCD's threshold of 55 pounds per day. This is considered a significant impact and would require mitigation using cleaner Tier 2+ equipment ⁻¹ to reduce NO _x emissions to below a level of significance.	S	Construction equipment shall be equipped with an engine designation of EPA Tier 2 or better Tier (Tier 2+). A list of the construction equipment and the associated EPA Tier shall be submitted to the County Planning and Development Department prior to the issuance of a grading permit to verify implementation of measure. AQ2 Pursuant to Imperial County's APCD, all construction sites, regardless of size, must comply with the requirements contained within Regulation VIII-Fugitive Dust Control Measures. These mitigation measures listed below shall be implemented prior to and during construction and enforced/monitored by the County Department of Public Works will verify implementation and compliance with these measures. ICAPCD Standard Mitigation Measures for Fugitive Dust (PM10) Control All disturbed areas, including Bulk Material storage which is not being actively utilized, shall be effectively stabilized and visibl3e emissions shall be limited to no greater than 20% opacity for dust emissions by using water, chemical stabilizers, dust suppressants, tarps or other suitable material such as vegetative ground cover.	LTS

1 For the purposes of mitigation, any construction equipment unable to comply with the applicable standards for a specific pollutant will be reanalyzed using the applicable Tier 2 equipment for engine sizes over 50 HP. These emission rates become mandatory for all equipment built starting 2001 or later (depending on engine size).

Proposed Action = PA Alternative 1 – Alternative			Alternative 3 – Reduced Solar	Alternative 4 – No Action/No	
	Transmission Line Corridor (IVW-2A) = 1	Line Corridor (IVW-1) = 2	Energy Facility Site = 3	Project Alternative = 4	
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE	

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		All on site and off site unpaved roads will be effectively stabilized and visible emissions shall be limited to no greater than 20% opacity for dust emissions by paving, chemical stabilizers, dust suppressants and/or watering.	
		All unpaved traffic areas one (1) acre or more with 75 or more average vehicle trips per day will be effectively stabilized and visible emission shall be limited to no greater than 20% opacity for dust emissions by paving, chemical stabilizers, dust suppressants and/or watering.	
		The transport of Bulk Materials shall be completely covered unless six inches of freeboard space from the top of the container is maintained with no spillage and loss of Bulk Material. In addition, the cargo compartment of all Haul Trucks is to be cleaned and/or washed at delivery site after removal of Bulk Material.	
		All Track-Out or Carry-Out will be cleaned at the end of each workday or immediately when mud or dirt extends a cumulative distance of 50 linear feet or more onto a paved road within an Urban area.	
		Movement of Bulk Material handling or transfer shall be stabilized prior to handling or at points of transfer with application of sufficient water, chemical stabilizers or by sheltering or enclosing the operation and transfer line.	

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		The construction of any new Unpaved Road is prohibited within any area with a population of 500 or more unless the road meets the definition of a Temporary Unpaved Road. Any temporary unpaved road shall be effectively stabilized and visible emissions shall be limited to no greater than 20% opacity for dust emission by paving, chemical stabilizers, dust suppressants and/or watering.	
		ICAPCD Standard Mitigation Measures for Construction Combustion Equipment	
		Use of alternative fueled or catalyst equipped diesel construction equipment, including all off-road and portable diesel powered equipment.	
		Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes as a maximum.	
		Limit, to the extent feasible, the hours of operation of heavy duty equipment and/or the amount of equipment in use	
		Replace fossil fueled equipment with electrically driven equivalents (provided they are not run via a portable generator set)	
		Construction equipment operating onsite should be equipped with two to four degree engine timing retard or precombustion chamber engines.	

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environmento	al Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
				ction equipment used for the A Tier 2 or better engine techr		
			· ·	hicles well maintained to prev emissions, and encourage ame.		
			ICAPCD Disc Dust (PM10) C	cretionary Mitigation Measure Control	es for Fugitive	
			continue	exposed soil with adequate ed moist soil, including a mini per day during grading activi	imum of three	
			Replace as possik	ground cover in disturbed ar ole	reas as quickly	
			Automa	tic sprinkler system installed on	all soil piles	
				speed for all construction vel 15 mph on any unpaved s tion site.		
				ent the trip reduction plan to construction employees	achieve a 1.5	
			Implement a shuttle service to and from retail services and food establishments during lunch hours			
Ti	Alternative 1 – Alternative ransmission Line Corridor IVW-2A) = 1	Alternative 2 – Alterna Line Corridor (IVW-1)	rive 2 – Alternative Transmission Alternative 3 – Reduced Solar Energy Facility Site = 3		Alternative 4 – No Project Alternative	
Less Than Significant = LTS S	ignificant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environmental Effects		Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
1 Same as PA. 2 Same as PA. 3 Same as PA. 4 No significant impact would occur.		S S S NE	 Curtail of pollutant of consideration Implement activities Same as PA. Same as PA. 	Mitigation Measures for construction during periods of concentrations; this may intruction activity during the part traffic on adjacent roadways and activity management (e.s. to reduce short-term impact recommended.	of high ambient include ceasing peak hour of ys g. rescheduling	LTS LTS LTS NE
PA Although no impact is identified for greenissions, the Proposed Action is reconsistent with the GHG emissionstrategies of AB 32.	5 Greenhouse Gases A Although no impact is identified for greenhouse gas emissions, the Proposed Action is required to be consistent with the GHG emissions reduction Output Diesel Equipment (Compression Ignition) Offset Strategic (40% to 60% Reduction):		s rather than ensite should be engine timing agines. e project should ne technology easure AQ1 as	BE		
Proposed Action = PA Alternative 1 - Alt Transmission Line ((IVW-2A) = 1)					Alternative 4 – No Project Alternative	·
Less Than Significant = LTS Significant = S		Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	= BE

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		GHG2 Vehicular Trip (Spark Ignition) Offset Strategies (30% to 70% Reduction):	
		4) Encourage commute alternatives by informing construction employees and customers about transportation options for reaching your location (i.e. post transit schedules/routes).	
		5) Help construction employees rideshare by posting commuter ride sign-up sheets, employee home zip code map, etc.	
		6) When possible, arrange for a single construction vendor who makes deliveries for several items.	
		7) Plan construction delivery routes to eliminate unnecessary trips.	
		8) Keep construction vehicles well maintained to prevent leaks and minimize emissions, and encourage employees to do the same.	
1 Same as PA.	NE	Same as PA.	BE
2 Same as PA.	NE	Same as PA.	BE
3 Same as PA.	NE	Same as PA.	BE
4 No significant impact would occur.	NE	No mitigation recommended.	NE
4.6 Geology/Soils and Mineral Resources			
PA The Proposed Action site contains expansive soils and corrosive soils.	S	Prior to approval of final engineering and grading plans for the Imperial Solar Energy West project site, the County shall verify that all recommendations contained in the Geotechnical Investigation Report, Imperial Solar Energy Center West, prepared by Landmark Consultants,	LTS
	Alternative 2 – Alternative 2 – Alternative 1		

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
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Inc. (May 2010) has been incorporated into all final engineering and grading plans. This report identifies specific measures for mitigating geotechnical conditions on the project site, and addresses site preparation, foundations and settlements, slabs-on-grade, concrete mikes and consvivty, seismic design, and pavement design. The County's soil engineer and engineering geologist shall review grading plans prior to finalization, to verify plan compliance with the recommendations of the report. All development on the project site shall be in accordance with Title 24, California Code of Regulations. 1 Same as PA.	Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation	
1 Same as PA. 2 Same as PA. 3 Same as PA. 4 No significant impact would occur. PA Implementation of the Proposed Action would result in a significant impact to cultural resources during the construction and operational repair periods of the project. S CR-1 The sites which would be impacted during project construction are broken down by alternative in Section 4.7.1 above. For those sites which would be directly impacted due to the construction of access roads, towers, pull sites, or solar fields, a formal testing and evaluation program for such sites shall document the presence or absence of subsurface deposits and the specific research potential for each site. In addition, the evaluation program shall be consistent with the Secretary of Interior Standards for the Treatment of Historic Properties and the Secretary of			engineering and grading plans. This report identifies specific measures for mitigating geotechnical conditions on the project site, and addresses site preparation, foundations and settlements, slabs-on-grade, concrete mixes and corrosivity, seismic design, and pavement design. The County's soil engineer and engineering geologist shall review grading plans prior to finalization, to verify plan compliance with the recommendations of the report. All development on the project site shall be in accordance with Title 24, California Code of		
2 Same as PA. 3 Same as PA. 4 No significant impact would occur. NE No mitigation recommended. NE 4.7 Cultural Resources PA Implementation of the Proposed Action would result in a significant impact to cultural resources during the construction and operational repair periods of the project. S CR-1 The sites which would be impacted during project construction are broken down by alternative in Section 4.7.1 above. For those sites which would be directly impacted due to the construction of access roads, towers, pull sites, or solar fields, a formal testing and evaluation program is required. The evaluation program for such sites shall document the presence or absence of subsurface deposits and the specific research potential for each site. In addition, the evaluation program shall be consistent with the Secretary of Interior Standards for the Treatment of Historic Properties and the Secretary of	1 Same as PA.	S	7	LTS	
3 Same as PA. 4 No significant impact would occur. NE No mitigation recommended. NE 4.7 Cultural Resources PA Implementation of the Proposed Action would result in a significant impact to cultural resources during the construction and operational repair periods of the project. S CR-1 The sites which would be impacted during project construction are broken down by alternative in Section 4.7.1 above. For those sites which would be directly impacted due to the construction of access roads, towers, pull sites, or solar fields, a formal testing and evaluation program is required. The evaluation program for such sites shall document the presence or absence of subsurface deposits and the specific research potential for each site. In addition, the evaluation program shall be consistent with the Secretary of Interior Standards for the Treatment of Historic Properties and the Secretary of					
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in a significant impact to cultural resources during the construction and operational repair periods of the project. The sites which would be impacted during project construction are broken down by alternative in Section 4.7.1 above. For those sites which would be directly impacted due to the construction of access roads, towers, pull sites, or solar fields, a formal testing and evaluation program is required. The evaluation program for such sites shall document the presence or absence of subsurface deposits and the specific research potential for each site. In addition, the evaluation program shall be consistent with the Secretary of Interior Standards for the Treatment of Historic Properties and the Secretary of					
Interior standards and Goldennes for Archideology and	in a significant impact to cultural resources during the construction and operational repair periods of the project. The sites which would be impacted during project construction are broken down by alternative in Section 4.7.1 above. For those sites which would be directly impacted due to the construction of access roads towers, pull sites, or solar fields, a formal testing and evaluation program is required. The evaluation program for such sites shall document the presence or absence of subsurface deposits and the specific research potentic for each site. In addition, the evaluation program shall be consistent with the Secretary of Interior Standards for				

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4	
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE	

Environmer	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			eligible for register, best Secretary of Historic Prope and Guidelin	ervation. Should these sites be listing on the NRHP, CRHR, management practices consi Interior Standards for the erties and the Secretary of Inte- es for Archaeology and Historic ired including:	and/or local stent with the Treatment of rior Standards	
			rede ope signi seve	ough project cally possible, cause a new r increase the ental impact, re than 1 MW		
			(2) Covering the archaeological sites with a layer of chemically stable soil before constructing facilities on site so long as covering can be done in a manner that is technically possible, does not cause a new significant environmental impact or increase the severity of a significant environmental impact, and does not cause the loss of more than 1 MW of production.			
			b) Minimizing impacts by limiting the degree of impacts or reducing the impact through best management practices identified in a data recovery, excavation and/or construction monitoring plan. The content of this plan must be consistent with the Secretary of Interior's Standards for the Treatment of Historic			
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1			Alternative 4 – No Project Alternative	· ·	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			and Go Preserva be moni that will	es and Secretary of the Interior videlines for Archaeology tion and include a descriptio tored during construction, a c address unanticipated cultury visions for the education of	and Historic n of areas to discovery plan ral resources,	
			There are additional sites which may be impacted due to their proximity to construction areas (see Section 4.7.1 above). Because these sites are located near areas being impacted by project construction, temporary fencing around their perimeters will be required to ensure that project impacts remain within the proposed impact area and that cultural resources are avoided by project personnel. In addition, grading within the construction area shall be performed in a manner that incorporates sheet flow and water runoff diversion techniques to prevent surface water from damaging off-site cultural sites.			
			CR-3 Pursuant to CEQA Guidelines § 15064.5(f), in the event that unknown historic or unique archaeological resources are encountered during construction or operational repairs, archaeological monitors will be authorized to temporarily divert construction work within 100 feet of the area of discovery until the significance and the appropriate mitigation measures are determined by a Registered Professional Archaeologist			
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		familiar with the resources of the region. Applicant shall notify the County within 24 hours. Applicant shall provide contingency funding sufficient to allow for implementation of avoidance measures or appropriate mitigation.	
		CR-4 If human remains are discovered, work will be halted in that area, and the procedures set forth in the Native American Graves Protection and Repatriation Act (NAGPRA), the CEQA Guidelines Sec. 15064.5 (d) and (e), California PRC Sec. 5097.98 and state HSC Sec. 7050.5 shall be followed, as applicable.	
Same as PA.	S	Same as PA.	LTS
Same as PA.	S	Same as PA.	LTS
Same as PA.	S	Same as PA.	LTS
No significant impact would occur.	NE	No mitigation recommended.	NE
Noise			
No significant impact would occur.	NE	No mitigation recommended.	NE
Same as PA.	NE	Same As PA.	NE
Same as PA.	NE	Same As PA.	NE
Same as PA.		Same As PA.	NE
•	NE	No mitigation recommended.	NE
Agricultural Resources			
Implementation of the Proposed Action will result in the conversion of existing farmlands on the project site to other uses.	S	AR1 Prior to the issuance of a grading permit or building permit (whichever permit comes first) for the Proposed Action, the mitigation of impact to agricultural lands shall be accomplished via one of the following as determined by the Permittee:	LTS
	Same as PA. Same as PA. Same as PA. No significant impact would occur. Noise No significant impact would occur. Same as PA. Same as PA. Same as PA. No significant impact would occur. Same as PA. In the conversion of the Proposed Action will result in the conversion of existing farmlands on the project	Same as PA. Some as PA. No significant impact would occur. No significant impact would occur.	Environmental Effects Significance Before Mitigation familiar with the resources of the region. Applicant shall notify the Country within 24 hours. Applicant shall notify the Country within 24 hours. Applicant shall notify the Country within 24 hours. Applicant shall provide contingency funding sufficient to allow for implementation of avoidance measures or appropriate mitigation. CR-4 If human remains are discovered, work will be halted in that area, and the procedures set forth in the Native American Graves Protection and Repatriation Act (NAGPRA), the CEQA Guidelines Sec. 15064.5 (d) and (e), California PRC Sec. 5097.98 and state HSC Sec. 7050.5 shall be followed, as applicable. Same as PA. \$ Same as PA. \$ Same as PA. \$ Same as PA. No significant impact would occur. NE No mitigation recommended. Noise No significant impact would occur. NE No mitigation recommended. Same as PA. No significant impact would occur. NE No mitigation recommended. Noise Same as PA. No significant impact would occur. NE Same As PA. Same as PA. No significant impact would occur. NE No mitigation recommended. NE Same As PA. No significant impact would occur. NE No mitigation recommended. NE Same As PA. No significant impact would occur. NE No mitigation recommended. Agricultural Resources Implementation of the Proposed Action will result in the conversion of existing farmlands on the project site to other uses. ARI Prior to the issuance of a grading permit or building permit (whichever permit comes first) for the Proposed Action, the mitigation of impact to agricultural lands shall be accomplished via one of the following as determined

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
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Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			in the perma (farmland c	I Solar Energy Center West" pro inent loss of 1,048.4 acres of ag of local importance) and t easures shall apply:	ricultural land	
				The Permittee shall procure Conservation Easements on of for all 1,048.4 acres, of sifarmland, outside of the development. The Conservational meet the State De Conservationals regulations or recorded prior to issuance of a building permits.	a 1 to 1 basis imilar quality e path of ion Easement partment of ind shall be	
				The Permittee shall pay an "A Lieu Mitigation Fee" in the amount the fair market value per 1,048.4 acres based on five sales of land used for agricult as of the effective date of including program costs recovery/time and material Agricultural In-Lieu Mitigation placed in a trust account ad the Planning and Developm Department and will be us purposes as the acquisition, preservation and enhan agricultural lands within Imperior	ount of 20% of acre for the comparable rural purposes of the permit, on a cost basis. The Fee, will be ministered by ment Services sed for such stewardship, cement of	
1 Same as PA.		S	Same as PA.	agnoonorananas wiiniin impen	ar courry.	LTS
2 Same as PA.		S	Same as PA.			LTS
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alterna Line Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

	Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
3	Same as PA.	S	Same as PA.	LTS
4	No new development is proposed under the No Action/No Project Alternative.	NE	No mitigation recommended.	NE
4.1	OHealth, Safety and Hazardous Materials/Fuels Manager	nent		
	The presence of trash and debris onsite and the application of herbicides on the solar facility project site is considered a significant impact.	S	Prior to the issuance of a grading permit, all trash and debris within the project site shall be disposed of off-site, in accordance with current, local, state, and federal disposal regulations. Compliance with this measure shall be verified by the Planning and Development Services Department before issuance of a grading permit. HM2 Prior to the application of herbicides on the solar facility for weed management, a weed control plan shall be developed and approved by the County of Imperial Agricultural Commissioner. The weed control plan shall provide: 1) monitoring, preventative and management strategies for weed control during construction activities at the project; 2) control and management of weeds in areas temporarily disturbed during construction where native seed will aid in site revegetation; and, 3) a long-term strategy for weed control and management during the operation of the project.	LTS
1	Same as PA.	S	Same as PA.	LTS
2	Same as PA.	S	Same as PA.	LTS
3	Same as PA.	S	Same as PA.	LTS
4	No significant impact would occur.	NE	No mitigation recommended.	NE

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
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Environmental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
4.11Hydrology and Water Quality					
PA The increase in imperviousness at the project site will be a result of the proposed transformer/inverter pads and the operations and maintenance facility. The combined impact of these facilities will increase the site imperviousness from 0% to 0.5%. The increase in runoff volumes is considered a significant impact. Contamination associated with urban non-point source pollution (e.g., grease, oils, sediment, and heavy metals) could enter the on-site retention basins as a result of construction or post-construction-related activities, resulting in potentially significant water quality impacts.		issuance of the submit and reduced accordance Imperial. The treatment of include, but on the include, but on the integrated of the integra	d pest management; rigation and landscape designowner educational materiantrol management. Sontrol BMPs will comprise of destrash and pollutants such trals, bacteria, oil and grease, or	eveloper shall the RWQCB in the County of e control and control BMPs n; and, als regarding etention basins as sediment, and organics. sure optimum intenance will tout the life of of ture owner of erational and	LTS
'	Alternative 2 – Altern Line Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	•
Less Than Significant = LTS Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		Periodic sediment removal.	
		Monitoring of the basin to ensure it is completely and properly drained.	
		Outlet structure cleaning.	
		Vegetation management.	
		Removal of weeds, tree pruning, leaves, litter, and debris.	
		Vegetative stabilization of eroding banks.	
		Inspection Frequency The facility will be inspected and inspection visits will be completely documented:	
		Once during the rainy season and once between each rainy season at a minimum,	
		After every large storm (after every storm monitored or those storms with more than 0.50 inch of precipitation).	
		Aesthetic and Functional Maintenance Functional maintenance is important for performance and safety reasons. Aesthetic maintenance is important for public acceptance of storm water facilities.	
		Aesthetic Maintenance-The following activities will be included in the aesthetic maintenance program:	

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environmer	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
				Control: Weeds will be remo	oved through	
			Functional Mo	aintenance has two compone	nts:	
			• Prevento	itive maintenance.		
			Corrective	ve maintenance.		
				maintenance will be done ventative maintenance acti	_	
			maintena removal v for inlet a	d Debris: During each ins nce visit to the site, debr will be conducted to reduce nd outlet structures and other coming clogged and inope nts.	is and trash the potential components	
			Sediment management: Alluvial deposits at the inlet structures may create zones of ponded water. Upon these occurrences these deposits will be graded within the basin in an effort to maintain the functionality of the BMP. Sediment grading will be accomplished by manually raking the deposits.			
			removed than 18-ir	removal: Surface sedim when sediment accumulation on the sediment of the series is less. Vegetation removes	on is greater pasin volume,	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Altern- Line Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	•
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	: BE

Environmen	ital Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
				sediment excavation activ through reseeding.	ities will be	
			maintena gates, loc the manu compone	nce will be performed on ks, and access hatches in accuracturers' recommendations. Into will be operated on the control of th	cordance with Mechanical during each	
			effective	n of Mosquito Breeding Habit mosquito control program spotential breeding habitats.		
			non-routine b	aintenance aintenance is required on an eleasis to correct problems and peration and safe function aintenance activities include:	to restore the	
			Removal of Debris and Sediment: Sediment, debris, and trash, which threaten the ability of a basin to store or convey water, will be removed immediately and properly disposed of.			
			compone within 10	Repairs: Repairs to a ent of a basin will be made pworking days). Designers an uct repairs where structural	oromptly (e.g., and contractors	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Altern Line Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	·
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		Embankment and Slope Repairs: Damage to the embankments and slopes will be repaired quickly (e.g., within 10 working days).	
		Erosion Repair: Where a reseeding program has been ineffective, or where other factors have created erosive conditions (i.e., pedestrian traffic, concentrated flow, etc.), corrective steps will be taken to prevent loss of soil and any subsequent danger to the performance of a basin. There are a number of corrective actions that can be taken. These include erosion control blankets, riprap, sodding, or reduced flow through the area. Design engineers will be consulted to address erosion problems if the solution is not evident.	
		Fence Repair: Timely repair of fences (e.g., within 10 working days) will be done to maintain the security of the site.	
		Elimination of Trees and Woody Vegetation: Woody vegetation will be removed from embankments.	
		Elimination of Animal Burrows: Animal burrows will be filled and steps taken to remove the animals if burrowing problems continue to occur (filling and compacting). If the problem persists, vector control specialists will be consulted regarding removal steps. This consulting is necessary as the threat of rabies in some areas may necessitate the animals being destroyed rather than relocated.	

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
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Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		General Facility Maintenance: In addition to the above elements of corrective maintenance, general corrective maintenance will address the overall facility and its associated components. If corrective maintenance is being done to one component, other components will be inspected to see if maintenance is needed.	
		Maintenance Frequency Maintenance indicators, described above, will determine the schedule of maintenance activities to be implemented at the basin. These basins should not require a rigorous maintenance schedule, once the landscaping is established. The inspection frequency and regular preventative maintenance will indicate when corrective maintenance is necessary.	
		The detention basins must be inspected at least one during the rainy season and at least once between each rainy season. These basins must be maintained so that they continue to function as designed. All inspections and maintenance activities will be documented for submittal to the County of Imperial and the Regional Water Quality Control Board if requested.	
1 Same as PA.	S	Same as PA.	LTS
2 Same as PA.	S	Same as PA.	LTS
3 Same as PA.	S	Same as PA.	LTS
4 No significant impact would occur.	NE	No mitigation recommended.	NE

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
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Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
4.12 Biological Resources			
PA Implementation of the Preferred Action Alternative would impact vegetation communities, sensitive species, and jurisdictional waters.	S	Mitigation for the permanent and temporary impacts to creosote bush-white burr sage scrub, desert wash, and mesquite thicket shall be accomplished through required mitigation acres. Table 4.12-13 identifies the mitigation ratio/requirement and required mitigation for each vegetation community. B2 Flat-tailed Horned Lizard (FTHL) Construction Measures In accordance with the FTHL Rangewide Management Strategy (ICC 2003), the measures proposed below are designed to avoid, minimize, and/or compensate for potential direct and indirect effects construction of the proposed project may have on FTHL. The following will be implemented when conducting construction activities on the transmission line and within the creosote bush-white burr sage scrub vegetation in the southwestern corner of the Solar Energy Facility: 1. Prior to ground disturbing activities, an individual shall be designated and approved by the USFWS and BLM as a Designated Biologist² (i.e. field contact representative). A Designated Biologist will	LTS

² A qualified Designated Biologist must have (1) a bachelor's degree with an emphasis in ecology, natural resource management, or related science; (2) three years of experience in field biology or current certification of a nationally recognized biological society, such as The Ecological Society of America or the Wildlife Society (3) previous experience with applying terms and

conditions of a biological opinion; and, (4) the appropriate permit and/or training if conducting focused or protocol surveys for listed or proposed species.

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			construction reporting as annu-successing the BLM	gnated for the period during what ion and post-construction may be an approved biologist is reporting on habitat restove Designated Biologist will be M's Authorized Officer (i.e. er, El Centro).	onitoring and equired, such pration. Each approved by	
			ensure of for the F for the Designar responsil the corresponsil summari	ignated Biologist will have the compliance with the conservat THL and will be the primary agrimplementation of these mitted Biologist will have the cobility to halt activities that are inservation measures. A detabilities for the Designated ized below. To avoid and minigical resources, the Designated	ency contact leasures. The authority and in violation of ailed list of Biologist is mize impacts	
			least	BLM's Authorizing Officer and 14 calendar days before initibing activities.		
			 Immediately notify BLM's Authorized Officer and the USFWS in writing if the Project applicant is not in compliance with any conservation measures, including but not limited to any actual or anticipated failure to implement conservation measures within the time periods specified. 			
				duct compliance inspections cace per month during on-going		
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2 Alternative 3 – Reduced Solar Energy Facility Site = 3 Alternative 4 – No A Project Alternative =		·		
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environmer	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			comp repor	clearing, grubbing, and oleted, and submit a monthly to BLM's Authorized ruction is complete.	compliance	
			staging a placemer and flagg be stock vegetatio extent po soils due disturband confined surface	daries of all areas to be disturble reas, access roads, and sites that of spoils) will be delineate ging prior to construction activity piled in disturbed areas law or where habitat quality is assible, disturbance of shrubs to stockpiling will be mades, vehicles, and equipment to the flagged areas. To the explosion of the flagged areas of the explosion of the flagged areas of the explosion of the flagged areas. To the explosion of the flagged areas of the flagged areas of the explosion of the flagged areas. To the explosion of the flagged areas of the flagged areas of the flagged areas of the flagged areas. To the explosion of the flagged areas of the flagged areas of the flagged areas of the flagged areas of the flagged areas.	for temporary d with stakes ties. Spoils will acking native poor. To the and surface ninimized. All ment will be stent possible, to minimize	
			3. Approved biological monitor(s) will assist the Designated Biologist in conducting pre-construction surveys and in monitoring of mobilization, ground disturbance, grading, construction, operation, closure, and restoration activities. The biological monitor(s) will have experience conducting FTHL field monitoring, have sufficient education and field experience to understand FTHL biology, be able to identify FTHL scat, and be able to identify and follow FTHL tracks. The Designated Biologist will submit the resume, at least three references, and contact information of the proposed biological monitors to the BLM, CDFG, and USFWS for approval. To avoid			
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative 2	ative Transmission	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	- · · ·
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	: BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
				mize impacts to biological re Monitors will assist the Design ollowing:		
			gradin take p take o to, e avoido monito harm's washe and th	esent during construction (e.g., solar panel installation) of place in FTHL habitat to avoid fFTHL. Activities include, but a nsuring compliance with ance and minimization oring for FTHLs and removing to way, and checking avoidances to ensure that signs, and stated the property of the context of the conte	activities that d or minimize are not limited all impact measures, g lizards from ce areas (e.g., akes are intact	
			wildlife excave backfil other e at the compl	end of each work day, inspect pitfalls (trenches, bores ations) for wildlife and the ling is not feasible, all trenche excavations will be contoured ends to provide wildlife esca etely and securely covered access.	and other on backfill. If es, bores, and at a 3:1 slope ape ramps, or	
			surface when s	construction, examine are e disturbance periodically, at surface temperatures exceed or the presence of FTHL.	t least hourly,	
			awarenes	Project initiation, a worker e s program (WEAP) will be de Ited, and will be available in	eveloped and	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alterna Line Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No A Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			informatic operation	nish. Wallet-sized cards sum on will be provided to all , and maintenance per n program will include t	construction, rsonnel. The	
			• biolog	gy and status of the FTHL,		
			·	ction measures designed atial impact to the species,	to reduce	
			 functi areas 	on of flagging designating au ,	thorized work	
			•	ting procedures to be used untered in the field, and	if a FTHL is	
				g procedures and tect nuting to, and driving on, the f e mortality of FTHL on roads.		
			constructi below. FT more biol- are being extent fe designed include, to tracking, constructi minutes p	be removed from harm's won activities, per conservation HL removal will be conducted ogical monitors when construct conducted in suitable FTHL heasible, methods to find F to achieve a maximal capture out not be limited to using some and raking around shoon, the minimum survey efforce 0.40 ha (30 minutes per 1) the FTHLs will first obtain all necessitions.	n measure #6 ed by two or ction activities abitat. To the THLs will be e rate and will trip transects, rubs. During ort will be 30 ac). Persons	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor	Alternative 2 – Altern Line Corridor (IVW-1)	ative Transmission	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
Less Than Significant = LTS	(IVW-2A) = 1 Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environmer	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			federally CDFG an	norization from the CDFG. If t listed, only persons authoriz d the USFWS will handle FTHLs. ill also include:	zed by both	
			Proje RMS, quart per Cons	rned Lizard Observation Data ct Reporting Form, per Appe will be completed. During rerly reports describing FTHL renthe reporting requirements ervation Measure #1 about the to the USWFW, BLM, and control of the USWFW, and control o	ndix 8 of the construction, noval activity, described in ove, will be	
			relocation (e.g., away Yuha MA shade of surface t Celsius (C the Designation authorize captured other ap the lizard temperat be expos soon as hours. The	oval of FTHLs out of harm's won to nearby suitable habitat in any from roads and solar panels. A. Relocated FTHLs will be performed and solar panels and solar panels. A. Relocated FTHLs will be performed and solar panels. The sun are comperatures in the sun are comperatures in the sun are comperated Biologist or biological and the propriate and the propriate clean, dry contained and cannot escape. Lizards will rures between 75° F and 90° Fixed to direct sunlight. Release possible after capture and discovered some judgment and discovered some suitable after capture.	in low-impact (ii) areas of the claced in the clack (100° F), all monitor, if classe. Initially, ag, cooler, or cer from which claced in the class that the clas	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environmer	ıtal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			relocating in the Proj	g lizards to maximize survival o ect area.	of FTHLs found	
			habitat w which is o or if grou and 38 °C during thi low-impa	eximum extent practicable, graill be conducted during the adefined as March 1 through Sond temperatures are between C (100° F). If grading cannot be stime, any FTHLs found will be ct areas (see above) when habitat exists, (e.g., sandy super).	eptember 30, a 24°C (75° F) e conducted e removed to here suitable	
			transmission be reveg Plan (HRF Service, Taforement vegetation recontour collected and morplanting, monitoring (or less if Componer	ily disturbed areas asso- on line construction and stagi- etated according to a Habita etated according to a Habita etated according to a Habita of approved by the BLM, CEC he HRP must be approved in a titioned agencies prior to the in- n disturbing activities. Restora- ing the land, replacing the to of the land, replacing the land, r	ng areas, will at Restoration C, CDFG, and writing by the itiation of any ation involves psoil (if it was ntainer stock, replacement etc.), and od of 5 years cess criteria).	
Proposed Action = PA	Alternative 1 – Alternative	Alternative 2 – Altern	1	measures generally include of Alternative 3 – Reduced Solar	Alternative 4 – No A	action/No
порозеа Аспоп = РА	Transmission Line Corridor (IVW-2A) = 1	Line Corridor (IVW-1)		Energy Facility Site = 3	Project Alternative =	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect = B	·Ε

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		compaction, returning the surface to its original contour, pitting or imprinting the surface to allow small areas where seeds and rain water can be captured, planting seedlings that have acquired the necessary root mass to survive without watering, planting seedlings in the spring with herbivory cages, broadcasting locally collected seed immediately prior to the rainy season, and covering the seeds with mulch.	
		Operations and Maintenance Measures In order to reduce the potential impact to FTHL during O&M, the following will be implemented when conducting O&M along the transmission line and within the Solar Energy Facility:	
		9. No later than January 31 of every year the Project remains in operation, the Designated Biologist will provide the BLM's Authorized Officer, USFWS, CDFG, and the FTHL Interagency Coordinating Committee	
		(ICC) an annual FTHL Status Report, which will include, at a minimum:	
		 A general description of the status of the project site 	
		 A copy of the table in the Project biological monitoring report with notes showing the current implementation status of each conservation measure. 	

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			comp	issessment of the effectiven pleted or partially completed ling and minimizing project imp	d measure in	
			Flat-to	mpleted a Project Reporting F ailed Horned Lizard agement Strategy (RMS) (ICC 2	Rangewide	
			morto	mmary of information regard ality in conjunction with the Pro ality Reporting Program.	• ,	
			meas avoid	mmendations on how ures might be changed to mo I, minimize, and offset future pr e FTHL.		
			evaluate reduce maintena active se	nated Biologist or biological and implement the best FTHL mortality along ance roads, particularly durities (March 1 through Selasures will include:	measures to access and ng the FTHL	
			transr roads Desig to 10 corrid vehic	eed limit of 15 miles per hour mission line access roads or within the Solar Energy nated Biologist may reduce the mph in areas identified as alors as needed to reduced les required for O&M along the and within the Solar Energy	maintenance Facility. The nis speed limit active wildlife mortality. All e transmission	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1		Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2		Alternative 4 – No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environmer	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			roads	in on the designated access, c. Cross country vehicle and e de of designated work and bited.	quipment use	
			acce no gr as w would pede includ	strian access outside of the ss roads is permitted year-rou ound disturbing activities taked eed abatement or other ed require soil disturbant estrian footprints). This pede des occasional inspections out the on-site facilities.	nd as long as es place (such activities that ce beyond strian access	
			any c distur roads	activities including weed a other O&M activity that may rebance outside of the design will be conducted outside e season whenever feasible.	esult in ground nated access	
			• If any O&M activities must be conducted during the FTHL active season that may result in ground disturbance, such as weed abatement, washing of solar panels, or vehicles requiring access outside of a designated access road, a biological monitor will be present during activities to reduce FTHL impacts.			
			on annua	ntation of these measures wo al FTHL activity levels, the be t of the Designated Biolog road utilization. FTHL	st professional	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Altern- Line Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	· ·
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE .

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		access/maintenance roads will be relocated out of harm's way by the DB or qualified FTHL monitor.	
		Compensation In accordance with the Flat-tailed Horned Lizard Rangewide Management Strategy, mitigation would be required for impacts to FTHL habitat, as shown in 4.12-14.	
		FTHL are known to occur in the creosote bush-white burr sage scrub and desert wash vegetation along the proposed transmission corridors. In accordance with the Rangewide Management Strategy, compensation for impacts to this habitat within the MA will be at a 6:1 ratio.	
		B3 General Project Mitigation Recommendations A number of general measures, designed to reduce potential indirect impact to resources in the project area as well as restore and/or improve the quality of habitat in the project area, will be implemented after construction as standard operations and maintenance protocols. In order to reduce the potential impact to biological resources during operations and maintenance, the following should be implemented:	
		A brief Annual Report will be submitted to the relevant resource agencies documenting the implementation of the following general measures as well as any resource-specific measures such as habitat restoration and/or compensation:	

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			and exce for C nece durir limite prev - Anno be subc instro mea injury dead and guid shou - A Re imple storc proc emp scav vicin and - A W and goin	ed limits along all transmission within the solar energy facilities and 15 miles per hour. Transmit 28M activities shall be kept to essary for operations and be and the winter months when the access and annual timing it ent FTHL mortality. Full formal Worker Education To established for all employer contractors at the ISEC Sout action on sensitive species assures to avoid contact, distruction on sensitive species and and/or injured wildlife species the BLM shall be notified pelines and channels of authorally occur. Figure 1 Control Plan will be permented that details specificated and disposal of all little duced by the solar energy for layees. This plan is designed the rengers that may also prey on ity. This plan will be approve CAFG. Figure 2 Management Plan will implemented that describes a measures to remove weedy the solar energy facility and	ty should not nission access the minimum accomplished feasible. This is designed to raining should the sand any that to provide identification; orbance, and in the case of the extra proved the identification; or approved the identification is a collist and its to discourage wildlife in the identification in the i	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative 2	ative Transmission = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	e = 4
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	: RF

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			prep native project be a comparison of that spect mative project be a comparison of that spect minir minir	ve plant growth. This plant ared in conformance with he ve seed/planting guidelines of act's Habitat Restoration Plant approved by the BLM. Vildlife Mortality Reporting Provaced and implemented to art any dead or injured animals onnel conducting O&M activitience are will also and the An appropriate reporting formality and along the An appropriate reporting formality and along the transported wildlife observed with a dead or injured avian species are assumed to a second the second that will follow the example of the second that will outline assures for construction and Committee and that will outline assures for construction and Committee and the visibility of the second that will also address and the ABPP will also address an incomposition, timing of mization of activities that would predators, and incorporation of activities that would predators.	derbicide and dutlined in the and should agram will be identify and a observed by ties within the electronsmission and for dead anin the solar ansmission line ion with the reporting of a found along existing USFWS and Program (ABPP) will be conservation acts to bird approach and provides (2006) by ther methods lines to avian as disturbance construction, and attract prey	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Altern- Line Corridor (IVW-1)	= 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	e = 4
Less Than Significant = LTS	Significant = S	Significant and Unav	01000016 = 30	No Effect = NE	Beneficial Effect =	DE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
				ality Reporting Program and R discussed above.	Raven Control	
			Burrowing ow agricultural facility. The f	wing Owl wis have been observed in the fields within the proposed following measures will avoid, tential impact to burrowing activities:	solar energy , minimize, or	
			footprint	rading of the agricultural f should take place between nuary 31 to avoid impact g owls.	September 1	
			season, i are impl the nesti impact. owls are surveys	ruction is to begin during to the is recommended that the mean emented prior to February 1 to any of the burrowing owls withing a substruction continues, and expenses sighted should be subject for burrows before the brees of that owls can be relocated.	easures below to discourage in the area of y area where to frequent eding season	
			pre-cons shall be absence This is ne same bu	O-days prior to initiation of contruction clearance surveys for conducted to determine the earth of this species within the consucessary, as burrowing owls mourrow every year; therefore, as of burrowing owl burrows a	or this species presence or attruction area. The species are numbers and	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No A Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect = E	BE

Environme	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			during constru demark prior to clearar protock	ction may differ from the do previous focused surveys. To ction areas will need to cated in the field by the project the commencement of the project survey. The survey should bit provided in the Burrowing of and Mitigation Guidelines.	The proposed be clearly ect engineers e-construction Id follow the	
			footpring be imposed be use Passive breeding excave into occinside animal least of the allo before burrow preven burrow at a mather imposed the construction of the construction of the imposed in the im	re burrows are present within at, the following mitigation mediane the control of the prelocation should only be doring season. This includes atting all burrows and installing accupied burrows. This will allow to leave the burrow, but will be from re-entering the burrow. The week is required after the rewith the birds to leave the improvement of the area construction of the area and must be constructed area and must be construction of new burrows will take the north or south of the south of the proposed transmission	easures should nethods are to impact zone. The in the non-covering or one-way doors or any animals exclude any A period of at location effort apacted area an begin. The and filled in to of the active of the material particles of the active	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative 2		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	: BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
				d burrows onto BLM lands will agencies to prevent conflicts		
			finalized, monitorir proposed species. and cor	construction schedule and an approved biologist shong plan that will detail the doto minimize and mitigate in Passive relocation, destruction struction of artificial burrows and upon approval by CDFG.	all prepare a methodology mpact to this on of burrows,	
			requires a mi	pation guidelines for burrowin nimum of 6.5 acres of foragin aired resident bird to be c o offset the loss of foraging	g habitat per acquired and	
			minimum of to offset this in concert wi FTHL as deta least 13 acre habitat for be FTHL mitigation within the Yul for BUOW, it i	e project impacts to two activates acres would be permaner loss. This mitigation would be the the purchase/acquisition of iled in Mitigation Measure B2 es of the FTHL mitigation concurrowing owl and is approved on is in the form of an in lieu for a MA, which also provides sus assumed that the BLM or ICC.	intly protected implemented mitigation for a provided at a tains suitable. If by CDFG. If the to be used itable habitat C's use of the	
	Lauren and an e	Lauren a en		ne MA will also improve or incr		A . 1 /N .
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alterna Line Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	•
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	: BE

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		for BUOW and will therefore fulfill the BUOW mitigation requirement.	
		Raptors and active raptor nests are protected under California Fish and Game Code 3503.5, 3503, 3513. In order to prevent direct and indirect noise impact to nesting raptors such as red-tailed hawk, the following measures should be implemented:	
		 Initial grading and construction within the Proposed Action site should take place outside the raptors' breeding season of February 1 to July 15. 	
		If construction occurs between February 1 and July 15, a qualified biologist shall conduct a preconstruction clearance survey for nesting raptors in suitable nesting habitat (e.g., tall trees or transmission towers) that occurs within 500 feet of the survey area. If any active raptor nest is located, the nest area will be flagged, and a 500-foot buffer zone delineated, flagged, or otherwise marked. No work activity may occur within this buffer area, until a qualified biologist determines that the fledglings are independent of the nest.	
		Operations and Maintenance Impact Mitigation Mitigation for potential impact to raptors and other avian species due to collision with the proposed transmission lines are discussed below in B6 Migratory Birds and Other Sensitive Non-migratory Species.	

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		 Migratory Birds and Other Sensitive Non-migratory Bird Species In order to reduce the potential indirect impact to migratory birds, bats and raptors, an Avian and Bat Protection Plan (ABPP) will be prepared following the USFWS's guidelines and then implemented by the Project proponent. This ABPP will outline conservation measures for construction and O&M activities that might reduce potential impacts to bird populations and will be developed by the applicant in conjunction with and input from the USFWS. Construction Measures Construction conservation measures to be incorporated into the ABPP include: Minimizing disturbance to vegetation to the maximum extent practicable. Clearing vegetation outside of the breeding season. If construction occurs between February 1 and September 15, a qualified biologist shall conduct a pre-construction clearance survey for nesting birds in suitable nesting habitat that occurs within the proposed area of impact. Pre-construction nesting surveys will identify any active migratory birds (and other sensitive non-migratory birds) nests. Direct impact to any active migratory bird nest should be avoided. 	

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environmer	ntal Effects	Level of Significance Before Mitigation	Mitigation Measures			Level of Significance After Mitigation
			Minimize	wildfire potential.		
			Minimize	activities that attract prey and	d predators.	
			Control of	of non-native plants.		
			(APLIC 2	PLIC design guidelines for over 2006) by incorporating recore thods that enhance the visibil species.	mmended or	
	Operations and Maintenance Measures Operations and maintenance conservation be incorporated into the ABPP include:			n measures to		
			 Preparation of a Raven Control Plan that avoids introducing water and food resources in the area surrounding the Solar Energy Facility. 			
			appropri	ate APLIC guidelines for overhoate to minimize avian cion facilities (APLIC 2006).		
			Minimize	noise		
			Minimize	use of outdoor lighting.		
				ost—construction avian monit he Wildlife Mortality Reporting	-	
			The propose	dictional Waters d project will impact total of ctional resources, and 7.2 ac		
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2 Alternative 3 – Reduced Energy Facility Site = 3		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	: BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			temporary im	resources. A breakdown of pe apacts, as well as the mitigation apacts are shown for all of the -15.	on required to	
			concert with FTHL as deta acreage for required for anticipated necessary as requirements	or these impacts will be conthe purchase/acquisition of called in Mitigation Measure FTHL mitigation well exceeds impacts to CDFG resource that additional mitigation and approval of CDFG an jurisdictional resources.	mitigation for B2. As the the amount es, it is not would be an meets the	
			require a per and a Section the RWQCB. Alteration Ag	risdictional waters of the U.S. mit under Section 404 CWA from 401 state water quality cert in addition, a Section 160 reement would also need to be CDFG resources.	om the ACOE tification from 0 Streambed	
Implementation of Alternative A Transmission Line S Corridor would impact vegetation communities, sensitive species, and jurisdictional waters.			Mitigation for creosote bus mesquite thic mitigation ac	etation Communities If the permanent and tempora In the permanent and required mitigation In the permanent and temporary In the permanent and te	ert wash, and bugh required he mitigation	LTS
•	ernative B Transmission Line It vegetation communities			gh B7 identified above for P7 be implemented for the		LTS
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alterna Line Corridor (IVW-1)	ative Transmission	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
sensitive species, and juris	sdictional waters.		Transmission I selected.	Line Corridor, if this Alternative	e were to be	
			In accordar Rangewide Construction be required to B2. Compe	ailed Horned Lizard Habitat Conce with the Flat-tailed Howard Management Strategy, mand Operations and Mainterfor impacts to FTHL habitat, as insation specific to Alternative ine Corridor is shown in Table 4	orned Lizard nitigation for nance would s discussed in 1-Alternative	
				etation Communities the permanent and temporal h-white burr sage scrub, dese ket shall be accomplished thro cres. Table 4.12-18 identifies to ment and required mitigation community.	ert wash, and ough required he mitigation	
		In accordar Rangewide Construction be required 182. Compe	ailed Horned Lizard Habitat Conce with the Flat-tailed Hamanagement Strategy, mand Operations and Mainterfor impacts to FTHL habitat, as insation specific to Alternative Line Corridor is shown in Table 4	orned Lizard nitigation for nance would s discussed in 2-Alternative		
			The Alternati	dictional Resources Compensative 2-Alternative Transmission total of 1.1 acres of ACOEd 7.7 acres of CDFG jurisdiction	Line Corridor jurisdictional	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative 2		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	: BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			well as the rare shown for Mitigation for concert with FTHL as deta acreage for required for anticipated necessary as requirements mitigation for creosote bus mesquite thic mitigation acratio/requirer vegetation construction of the sample wide.	ailed Horned Lizard Habitat Conce with the Flat-tailed H Management Strategy, n	conducted in mitigation for B11. As the sthe amount ites, it is not a would be on meets the ind ACOE as ary impacts to cert wash, and ough required the mitigation on for each compensation formed Lizard initigation for formed contacts.	
			be required	and Operations and Mainte for impacts to FTHL habitat, o nsation specific to Alternative	ıs discussed in	
1 Same as PA.		NE	Same as PA.	•		NE
2 Same as PA.		NE	Same as PA.			NE
3 Same as PA.		NE	Same as PA.			NE
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative 2		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	·
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
NA No new development is proposed under the No Action/No Project Alternative. Therefore, no significant impact would occur.	NE	No mitigation recommended.	NE
PA Paleontological resources potentially located on the project site could be adversely affected during construction of the solar energy facility and transmission lines as a result of disturbance by grading or construction activities; unauthorized, unmonitored excavations; unauthorized collection of fossil materials; dislodging of fossils from their preserved environment (fossils out of context); and/or physical damage of fossil specimens. No impacts to paleontological resources are anticipated during operation of the Proposed Action.	S	PR1 Prior to grading or any ground disturbance, a paleontological field survey shall be conducted for the project site. The paleontological field survey and subsequent monitoring activities shall be in accordance with the BLM's "Guidelines for Assessment and Mitigation of Potential Impacts to Paleontological Resources." A. Definition of Field Surveys. Field Surveys are pedestrian surveys to be performed in areas where significant fossils can be expected to occur within the boundary and immediate vicinity of the anticipated disturbance, or where the probability of encountering significant fossils is unknown. 1. Field surveys are performed prior to any surface disturbing activities. Before conducting field surveys, the project location shall be as final as possible and any staking of the location shall be complete. 2. Surveys are conducted by a BLM Regional Paleontologist, Paleontology Lead, Paleontology Coordinator, appropriately trained and supervised BLM staff, or by a BLM-permitted consulting paleontologist hired by the project proponent.	LTS

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			, ,	At the Field Manager's disc qualified BLM staff may condu small projects. Performance BLM staff must also be appr Regional Paleontologist, Paleor or Paleontology Coordinator.	of surveys on of surveys by oved by the	
				Surveys that are complex constrained by construction so otherwise cannot be performstaff shall be performed by paleontologist holding a Paleontological Resources Submission of reports may be by the paleontologist to the project proponent is also respressed associated with the surventhe consulting paleontologist charges, all survey costs, fossi to the basic identification stareports, and curation costs die to mitigation of the project's impacts. Any required momitigation costs are also the result of the project proponent. These be negotiated between proponent and the paleontologist prior to beginning athering, analysis, or field wo negotiations do not resinvolvement or approval.	schedules, or med by BLM a consulting valid BLM Use Permit. done directly e BLM. The onsible for all vey, including t's fees and il preparation ge, analyses, rectly related a anticipated onitoring and esponsibility of e costs are to the project consulting ing any data	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor	Alternative 2 – Alternative Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	•
Less Than Significant = LTS	(IVW-2A) = 1 Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
				additional, or modified agreements between the pand the official repository must prior to starting field work.	oaleontologist	
				Authorization for an activity cannot be given by a paleontologist. Performance either by a consulting paleont staff, or submission of the representative approval for the proceed. The BLM must revisional finding adequacy of the fand findings. The Authorized approve the findings and deneed for monitoring prior to proceed.	of the survey, cologist or BLM ort DOES NOT exactivity to exact methods a Officer must letermine the	
			B. Conduct performe approve the followard performe approve the followard performance approved the followard performance approved the procedule of the formance approved the procedule approved to the formance approved the procedule approved the procedule approved to the formance approved to the followard approved t			
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1			Alternative 4 – No Project Alternative	·	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		consideration; therefore, surveys should not be attempted on cliff faces, in open, non-reinforced trenches deeper than five feet, or other unsafe areas.	
		 The scope of the survey is dependent upon the scale of the project. Small projects are defined as less than 10 acres, or, if linear, less than five miles; large projects exceed those dimensions. 	
		 At the start of field work, the consulting paleontologist (paleontologist) must contact the Paleontology Coordinator in each affected Field Office who may require a visit to that office. 	
		After an initial visit each year, the paleontologist may contact the Field Office by telephone or email prior to subsequent field trips, at the discretion of the Field Office. Information about the survey schedule, additional personnel, emergency field contact information, and any other pertinent data shall be provided to the Paleontology Coordinator. The Field Office will inform the paleontologist of any conditions that may impact the survey, such as fire danger or restrictions, drought restrictions, wildlife timing restrictions, management restrictions, road restrictions or construction, and any other relevant information.	

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environm	ental Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			surve pale prop	ng the field survey, the peys, locates, and doceontological resources within 2 posed project location or counce upon approval.	cuments all 00 feet of the	
				Where significant paleontolog are at risk, data collection ale constitute mitigation of do significant fossils that may be destroyed during project acticollected, along with all relevous and locational data. Specin collected during the survey commencement of any surfactivities.	one does not amage. All damaged or vities must be ant contextual nens must be or prior to	
				In many cases, isolated gar sci (turtle) carapace or plastro crocodile and fish teeth, and bone fragments do not r collected. The location must and a description of the f noted in the field notes an Locality Form as part of the context of these types of fos considered, as they may re occurrences or unusual fauna and thus may be scientifica and must be documented specimens collected where ap	on fragments, unidentifiable need to be be recorded fossil material of a BLM report. The sils should be epresent rare associations, ally important and voucher	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor	Alternative 2 – Alterna Line Corridor (IVW-1) :		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
Less Than Significant = LTS	(IVW-2A) = 1 Significant = S	Significant and Unavo		No Effect = NE	Beneficial Effect =	

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		(c) Occurrences of plant or invertebrate fossils should be recorded and representative examples or voucher specimens collected where appropriate. Additional mitigation measures may be appropriate in some cases for these types of localities.	
		(d) If a large specimen or a concentration of significant fossils is located during the field survey, the available time and/or personnel may not allow for full recovery during the survey. The specimen(s) and locality(ies) should be stabilized as needed, and a determination made as to whether avoidance is necessary or whether full recovery of the specimen is required at a later time prior to disturbance activities. The Authorized Officer and project proponent must be notified, the mitigation alternatives discussed including funding for recovery, and a decision reached as soon as possible. If avoidance or later recovery is selected for mitigation, the find should be stabilized, buried if needed to protect the fossils and context, and appropriate measures implemented to reduce adverse effects from natural or human causes.	
		 During the survey, locations or areas that exhibit a lithology suggesting a high probability of subsurface fossil material must be recorded, 	

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			mon mac whe surfo reco type of c	a recommendation for the neitoring, spot-checking, or testle in the report. This may it re no fossil material was fouce during the surveymmendation should consider of planned disturbance, such a trenching operation or the lace disturbance.	sting shall be include areas bund on the ey. The the size and a as the depth	
			whe restri	eys must be performed only n the ground is visible. Biol ctions, such as critical nestir s, may confine or delay field a	ogical timing	
			field survereport will require project presults of geologic information include of or other acres), the complet a differe BLM. The large prescoping.	f Survey Findings. After company, the paleontologist must in the BLM and the designated, a copy should also be proponent. This report must soft the survey as well as all and paleontological ion as described below. It any recommendations for on-smitigation. For small projects the report must be filed within ion of the survey unless specificant time frame has been recestime frame for submission of opjects should be negotiated of the control of the survey unless specificant time frame for submission of the control of the survey unless specificant time frame for submission of the control of the survey unless specificant time frame for submission of the control of the control of the control of the survey unless specificant time frame for submission of the control of	file a written ed repository. filed with the ummarize the appropriate background t should also ite monitoring s (less than 10 30 days after c approval for ived from the the report for during project approval to	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative 2		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No A Project Alternative	•
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect = E	BE

Environmental E	ffects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			•	of the project area noted blogically sensitive prior to find rt.		
			back the I (if c Regi Field inform of A Asse	orts of the general finding eground information must be BLM project manager or Auth appropriate), the Paleontologional Paleontologist, and economic ordinary of the Bust of the BLM's "Comment of the BLM's "Comment and Mitigation of Potestaleontological Resources", as compared to the Bust of the Bust of the Bust of the Bust of Potestaleontological Resources", as compared to the Bust of the	submitted to orized Officer ogy Lead or affected include the ed on page 9 Guidelines for ential Impacts	
			these not I BLM scale infor may sepc conf conf Pale may Field must	et locations of fossil localities e reports are considered sensi- poe included in any public do locality form (8270-3) or equive map showing the localities, of mation containing specific for the behalf of the behalf of the section to allow for project of the section to allow for project of the section must be substituted in some case be required). A copy for each of the submitted to the official recollected materials.	tive and must cument. The alent, 1:24000 and any other ossil locations placed in a eservation of copy of this mitted to the s, two copies ach affected Another copy	
Proposed Action = PA Altern	native 1 – Alternative	Alternative 2 – Alterna	ative Transmission	Alternative 3 – Reduced Solar	Alternative 4 – No	Action/No
	mission Line Corridor -2A) = 1	Line Corridor (IVW-1) =	= 2	Energy Facility Site = 3	Project Alternative	e = 4

Significant = S

Less Than Significant = LTS

No Effect = NE

Significant and Unavoidable = SU

Beneficial Effect = BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			used Existi base calc con recc 12.5 leve repc locc of app of a roac repc acc grap	GPS recording and data standard to report paleontological Iting USGS topographic mapped on the NAD27 standard, so culated from a map base verted before submission. Dorded and reported with a medianters or less, at a 95 perceral. For small localities, data orted as point data. Largulities should be reported using a centroid and a descriparoximate size, or the key coor bounding polygon. Linear feats or surveyed project bounded orted as line data. The 1:24000 companying the locality, at or an outline of the locality as be clearly labeled with the laber.	ocality data. os are often locality data e must be ata must be an error of +/- nt confidence a should be er polygonal g coordinates otion of the radinate points atures, such as aries, must be scale map(s) orms should either as a s appropriate,	
			D. Report Approval. The Authorized Officer will analyze the Survey Report for adequacy within 10 working days of receipt. Notification accepting the report, or explaining any identified deficiencies, will be sent to the consulting paleontologist and the project proponent with a copy placed in the project file. Any deficiencies must be corrected as soon as possible, usually initiated within five working days, and the report must be resubmitted for approval.			
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative 2		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	·
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			consider needed affecting procedu before proceed survey,	ation will be made for the ar for major corrections. Deficie g the survey, such as inade res or incomplete data, must granting approval for the l. Deficiencies not directly such as curation issues, will I of the project, but must be	encies directly equate survey be corrected e project to affecting the not prevent	
				n of Further Mitigation Requirer urvey, the need for additional contological resources shall be sed Officer, in consultation with or the Paleontology Lead, export for survey findings and cations. If no further mitigation is Officer will promptly notify that there are no additional positional measures required, and pending any other approvals documented indicating accept and identifying any addition. If it is determined the forts are needed to protect or cal resources, the project propoon as possible. The Author Paleontology Lead usually mitigation procedures or recedesigned in consultation with	I mitigation to e determined. with Regional shall analyze any mitigation is needed, the the project aleontological and the project is. The project otance of the nal mitigation at additional and the project otance of the nal mitigation at additional and preserve the project of the orized Officer develop and decommend a	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor	Alternative 2 – Alternative Corridor (IVW-1)	ative Transmission	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
Less Than Significant = LTS	(IVW-2A) = 1 Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	: BE

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		proponent. Factors such as locality or specimen significance, economics, safety, and project urgency will be considered when developing mitigation measures. Additional mitigation measures shall be developed and implemented as timely as possible so as not to delay project actions.	
		A. Relocation. The preferred mitigation technique is to change the project location based on the results of the field survey. Relocation, however, may necessitate a field survey of the new area, as well as resurveys by other resource specialists. Anticipation of this contingency prior to or during the original survey may allow for survey of an expanded area at the same time.	
		If relocation will eliminate impacts and is acceptable to all parties, then a report to the file, including a map showing the original and revised locations, must be completed documenting the change. Approval for the project to proceed in the revised location may then be granted by the Authorized Officer to the project proponent. When avoidance is not possible, appropriate mitigation may include excavation or collection (data recovery), stabilization, monitoring, protective barriers and signs, or other physical and administrative protection measures.	
		B. Deferred Fossil Collection. In some cases, fossil material may have been identified, but not completely collected during the initial field survey,	

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			assemble recovery beginning the adverse project s	a partial dinosaur or other age. It may be possible to a of this material and all related ag construction activities, and erse impact. This may require schedule and must be coordinaroponent.	complete the data prior to thus mitigate a shift in the	
			proceed fossil ma to the fil the red mitigatio report s discover available	all by the Authorized Officer for a will only be granted when resterial and field data is complete and the project proponent covery and indicating that on is required must be completigned by the Authorized Office y cannot be fully collected time frame, it may have to be a gor redesigning the project.	covery of the ted. A report documenting no further eted, and the ficer. If the d within the	
			in Mitigation	e field survey and reporting res Measure PR-1, a Monitoring and implemented (if required).		
			A monitoring plan can be developed by a BLM paleontologist or a qualified paleontologist hired by the proponent. The plan must be appropriately scaled to the size and complexity of the anticipated monitoring. If developed by a third party, the appropriate Paleontology Lead or Regional Paleontologist shall review the plan for sufficiency prior to acceptance.			
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	ВЕ

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			monitoring pl monitoring pl for the area	of the project may procee an is approved by the Authoriz an indicates the treatments re of the proposed disturband dress the following:	zed Officer. A ecommended	
				mended approach to addition, such as total or partial g; and,		
			sampling	cific locations and intensity of grecommended for each controlled impacted.	•	
			_	tensity is determined based o ata and/or field surveys and forts.	,	
			1) on-site, pe spot-checks,	litoring. There are two types of rformed during ongoing operoperformed during or after distu- ing the progress of the project.	ations, and 2) urbance, or at	
	key times during the progress of the project. 1. On-site monitoring – In areas with a high profor buried fossils, the presence of a monitor site of disturbance at all times that disturb occurring may be warranted. The need for time monitor is based on the findings of the the local geology, and the proposed actions will be made to complete fossil recover minimal work stoppage. However, in some an extended period of work stoppage in required, so coordination with the proponent or representative is important.				nonitor at the disturbance is eed for a full-of the survey, actions. Efforts ecovery with some cases, age may be the project	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alterna Line Corridor (IVW-1)		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	·
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			com agre allov be c	inning the monitoring work, apany supervisor, and machinery see on procedures for brief work or for examination of finds. It is critically the second of the second open trenches of the second open trenches in the second open trenches.	operators shall stoppages to ical that safety he presence of	
			mate steps Consalso not kappi reco Active be consignii trence active active active active active steps active active steps active steps active steps active steps active a	monitor must assess any finds, co erial and related data, and tall is to mitigate any current or pote sideration of the size of the expect be considered; for example, in the existing excavation active repriate to collect samples of exercity of microvertebrate fossils or exities planned to occur during night assessed relative to the potent ficant fossils. Fossils may not be very ching or grading operations, so wities may need to be suspended in sensitive areas.	te appropriate ential damage. Ited fossils must incrofossils may ities. It may be matrix for later other analyses. It ime should fall to uncover sible at night in a construction	
			prob more than Key the f to pl Exan pipe	e-checking – In areas with a mo- pability for unknown fossil mater e appropriate to check only at k a maintain continuous monitoring times for scheduling spot-chec fossil-bearing bedrock is exposed lacing spoil material back into the inples of these key times may eline trenching operation is competed in placed and the trench back	ial, it may be ey times rather of operations. king are when to view or prior the excavation. To be when a ete but before	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alterna Line Corridor (IVW-1)	ative Transmiss		Alternative 4 – No Project Alternative	· ·
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	= BE

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		redistribution of topsoil. Spot-checking requires close coordination with the project proponent and the paleontologist, and usually requires the paleontologist to be available on short notice. In some instances, it may be advantageous to allow rain and/or wind to erode away loose matrix and concentrate fossil material to increase visibility. The paleontologist will coordinate with the project proponent to allow sufficient time for this action to occur, as appropriate to conditions, expected fossil material, and construction schedules.	
		The paleontologist should report potentially fossiliferous areas in the final report to allow for future assessment of sites, even if no fossils were located during the project monitoring.	
		Types of Field Personnel. It may be necessary to employ a number of paleontology field personnel simultaneously. There may be a lack of fully qualified paleontologists to perform all the necessary monitoring during the scheduled times of construction. Use of additional personnel for field work is permissible, but Field Agents and Field Monitors (described below) must be requested by the Permittee and authorized by the BLM prior to field work.	
		Principal Investigator – The person listed as Permittee (Permit item 1a) on the Paleontological Resources Use Permit is the Principal Investigator (PI) and is responsible for all actions under the permit, for meeting all permit terms and conditions, and for the	
Proposed Action = PA Alternative 1 – Alternative	Alternative 2 – Alternative 2 – Alternative 2		

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environmer	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures	Level o Significar After Mitigatio	nce
			· ·	ance of all other personnel. contact person for the proje BLM.	•	
			perform condition submitte qualifica Field Ag "Name(s supervisin 8) or aut must fol applicat the peri separate Field wor	•	e Pl under the lés must be demonstrate of Permittees. permit under for planning, " (Permit item om BLM. They and conditions larry a copy of anditions, and ile in the field.	
			3. Field Monitor – Field Monitors may be utilized for supplemental on-site monitoring of surface-disturbing activities when the PI or a Field Agent is performing field work elsewhere. Field Monitors must have sufficient field experience to demonstrate acceptable knowledge of fossil identification, collection methods, and paleontological techniques. The PI must supply a summary of each person's experience to the BLM prior to field work. Field Monitors must be approved by the BLM prior to performing field work and must carry a copy of the permit while in the field. The PI or Field Agent must			
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative 2	ernative Transmission Alternative 3 – Reduced Solar Alternative 4 – No Action/No			
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect = BE	

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures	Level of Significance After Mitigation
			portable phone of near end examino	emmunication with the Field Me communication device, such two-way radio, and are repugh to the Field Monitor to allow ation of all fossil discoveries (reseaway) by the PI or Field Ager	ch as a cell quired to be ow for prompt so more than
			 4. Field Assistant – Additional personnel not meeting the previously cited experience or knowledge levels may be utilized during field work, but must be under direct, on-site supervision of either the PI or a Field Agent as part of a supervised crew. Field assistants must have at least four to eight hours of training or experience received from a qualified paleontologist in identifying paleontological resources prior to performing field work or when first utilized in this capacity. A listing of all Field Assistants (including contact information) must be supplied prior to any field work. All discoveries made by a Field Assistant must be immediately reported to the PI or Field Agent on site. To ensure proper supervision, an appropriate ratio of Field Assistants per PI or Field Agent must be maintained. The complexity of the project, the area to be covered, and the experience of the assistants are some of the factors that should be considered in determining the proper ratio, but commonly five to seven assistants is the maximum number that can be supervised by one PI or Field Agent. Work Stoppage. If significant fossil material is discovered 		wledge levels nust be under PI or a Field ield assistants of training or caleontologist ces prior to utilized in this nts (including d prior to any Field Assistant e PI or Field apervision, an er PI or Field plexity of the d, and the of the factors ng the proper sistants is the sed by one PI is discovered
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor	Alternative 2 – Alternative Corridor (IVW-1)			Alternative 4 – No Action/No Project Alternative = 4
Less Than Significant = LTS	(IVW-2A) = 1 Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect = BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			surface distutis complete taken. Effort with minimal an extended of the pale mitigated, or work may read a soon as posefforts that mitigated we concurrence representative obtained. granted from Officer. PR3 Upon complete monitoring, the final report to and the design may be provided the details and a Attachment.	rs have the authority to terbing actions until an assessmed and appropriate protects will be made to complete work stoppage. However, in a period of work stoppage may contological resource can recollected within approximate esume after approval from the Authorized Officer must assible of the discovery and officer undertaken. If the finithin a reasonable time (two examples of the Authorized Officer work are undertaken. If the finithin a reasonable time (two examples of the Authorized Officer work are for a longer work stopped work may not resume until both the PI or Agent and the Authorized Officer, Paleon in the BLM Locality forms. Reported in the BLM Locality forms. Reported in the BLM's "Guidelines for the BLM's "Guidelines for of Potential Impacts to Pote	ent of the find ion measures fossil recovery in some cases, by be required. be avoided, rely two hours, the PI or Field be notified as any mitigation and cannot be re or official age must be all approval is the Authorized and survey and days, a written antology Lead, of the report ent if required, is must include an page 14 of or Assessment	
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative 2		Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Project Alternative	
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	: BE

Environme	ntal Effects	Level of Significance Before Mitigation		Mitigation Measures		Level of Significance After Mitigation
			similo the	e survey was performed by E ar in contents must be writter project file, and the project ed as soon as possible upon co	n and filed in ct proponent	
			the signed re are accepted resources re completed. writing as socionsulting with project fill. The responsibility appropriate	bility of the project proponer mitigation related directly to	um deposition aleontological e considered pe notified in d Officer after or Regional ion placed in the ends when the project is	
			completed and final approval is received from the Authorized Officer. Any additional field collection, quarrying, final specimen preparation, etc. will be considered to be research, and will be the responsibility of the consulting paleontologist or another approved party. The project proponent will not be held responsible for completion of any research project. However, the project proponent can choose to sponsor further research. A separate research permit will be required for additional research activities.			
Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1			Alternative 4 – No Project Alternative		
Less Than Significant = LTS	Significant = S	Significant and Unav	oidable = SU	No Effect = NE	Beneficial Effect =	

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
		PR5	
		Fossil specimens and related data collected from public lands during field surveys and mitigation remain the	
		property of the Federal government. They must be	
		placed in the approved repository(s) identified on the	
		Paleontological Resource Use Permit held by the	
		consulting paleontologist as soon as practical and	
		receipt(s) of collections submitted to the BLM, but no	
		later than 60 days after all field work is completed.	
		Written approval from the Paleontology Lead or Regional Paleontologist is required if additional time is	
		needed for transfer of all specimens and field data.	
1 Same as PA.	S	Same as PA.	LTS
2 Same as PA.	S	Same as PA.	LTS
3 Same as PA.	S	Same as PA.	LTS
4 No significant impact would occur.	NE	No mitigation recommended.	LTS
4.14 Socioeconomic Conditions and Environmental Justice			
PA No significant impact would occur.	NE	No mitigation recommended.	NE
1 Same as PA.	NE	Same as PA.	NE
2 Same as PA.	NE	Same as PA.	NE
3 Same as PA.	NE	Same as PA.	NE
4 No significant impact would occur. 4.15 Recreation	NE	No mitigation recommended.	NE
PA No significant impact would occur.	NE	No mitigation recommended.	NE
1 Same as PA.	NE NE	Same as PA.	NE NE
2 Same as PA.	NE NE	Same as PA.	NE
3 Same as PA.	NE	Same as PA.	NE
4 No significant impact would occur.	NE	No mitigation recommended.	NE

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
4.16 Special Designations			
PA No significant impact would occur.	NE	No mitigation recommended.	NE
1 Same as PA.	NE	Same as PA.	NE
2 Same as PA.	NE	Same as PA.	NE
3 Same as PA.	NE	Same as PA.	NE
4 No significant impact would occur.	NE	No mitigation recommended.	NE
5.0 Cumulative Impacts			
PA The addition of the Proposed Action's trips to the Year 2012 plus cumulative conditions would result in a cumulatively significant impact to the following intersections: • Dunaway Road at Project Access; • Dunaway Road at I-8 WB Ramp; • Dunaway Road at I-8 EB Ramp; and, • Forrester Road at I-8 EB Ramp.	S	CUM1 Intersections of Dunaway Road at Project Access; Dunaway Road at I-8 WB Ramp; Dunaway Road at I-8 EB Ramp; and, Forrester Road at I-8 EB Ramp. A Mitigation Monitoring and Reporting Program shall be established to determine if the four intersections would operate at unacceptable LOS starting in Year 2012 and beyond annually until the project construction is completed. If unacceptable LOS is documented in Year 2012, then a fair share contribution or payment of applicable Transportation Impact Fee is recommended as the mitigation measure. It should be noted that the fair share participation is based on the project's construction traffic that is significantly higher than the project's traffic after completion of construction. It should also be noted that the fair share participation is based on the project's construction traffic that is significantly higher than the project's traffic completion of construction (i.e. 285 temporary construction employees vs. 4 permanent operation employees) as follows:	LTS

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE

	Environmental Effects	Level of Significance Before Mitigation	Mitigation Measures	Level of Significance After Mitigation
			Dunaway Road at Project Access (Construction = 41.4%, Permanent Emp. = 0.9%);	
			Dunaway Road at I-8 WB Ramp (Construction = 22.9%, Permanent Emp. = 0.4%);	
			Dunaway Road at I-8 EB Ramp (Construction = 18.3%, Permanent Emp. = 0.9%); and,	
			• Forrester Road at I-8 EB Ramp (Construction = 9.8%, Permanent Emp. = 0.2%).	
			If unacceptable LOS is not documented at the four cumulatively impacted intersections based on the mitigation monitoring and reporting program, then the applicant's fair share contribution (based on construction traffic) should be refunded. If the County desires some form of mitigation, then it is recommended that the fair share contribution (based on permanent operation employees) be conditioned.	
1	Same as PA.	S	Same as PA.	LTS
2	Same as PA.	S	Same as PA.	LTS
3	Same as PA.	S	Same as PA.	LTS
4	No new development is proposed under the No Action/No Project Alternative. Therefore, no significant impact would occur.	NE	No mitigation recommended.	NE

Source: BRG Consulting, Inc., 2010

Proposed Action = PA	Alternative 1 – Alternative Transmission Line Corridor (IVW-2A) = 1	Alternative 2 – Alternative Transmission Line Corridor (IVW-1) = 2	Alternative 3 – Reduced Solar Energy Facility Site = 3	Alternative 4 – No Action/No Project Alternative = 4
Less Than Significant = LTS	Significant = S	Significant and Unavoidable = SU	No Effect = NE	Beneficial Effect = BE